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Abstract

A spring brake actuator is mounted with its shaft connected to the rotational operative shaft of a service brake actuator. The spring brake actuator has a clock spring, which is mechanically charged at a rotation of the actuator shaft in a brake release direction. It also has an electric coil for keeping when electrically energized - the clock spring in its charged condition. Further, it has means for transferring the rotative energy of the clock spring to the actuator shaft in a brake applying direction, when the coil is energized, but allowing free rotation of the shaft in either direction, when the coil is energized.